ABSTRACT

This invention provides enhanced attachment of chemical moieties to the surface of an electronically addressable microchip array permeation layer. The attachment of the chemical moieties may occur at predetermined locations of the array or throughout the entire array. The attachment may be carried out by employing electronic potential at capture sites of the array to induce variations in pH of solutions in contact with the array or may be carried out by nonelectronically adjusting the pH of the solutions. The chemical moieties contemplated are pH sensitive and form reactive centers for attachment to the array. Also provided is a novel grafting method for such attachment.